CIVIL-TECH CONSULTANTS & ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC - 17025 : 2005

Job No.: CTCE/BBMP/W.No.11/KS/CEMENT/2013-14

Date: 20.03.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. K. Satish (N S Infras),** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to CC Road and Drains Murali House Road in Gangamma Temple in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/457/1/2013-14 Dated: 19.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.00 %	-

Note:

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22/3/14

AE - 11

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Job No.: CTCE/BBMP/W.No.11/KS/SAND/2013-14 : 20.03.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. K. Satish (N S Infras),** Contractor, Bangalore.

Name of Work : Improvements to CC Road and Drains Murali House Road in Gangamma Temple in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/457/1/2013-14 Dated: 19.03.2014

Date of Testing : 20.03.2014

Material : Sand Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	86	4.3	4.3	95.7	90-100
2.36	225	11.3	15.6	84.5	75-100
1.18	329	16.5	32.0	68.0	55-90
600 Micron	594	29.7	61.7	38.3	35-59
300 Micron	418	20.9	82.6	17.4	8-30
150 Micron	265	13.3	95.9	4.2	

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Job No.: CTCE/BBMP/W.No.11/KS/AGG/2013-14 : 20.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. K. Satish (N S Infras),** Contractor, Bangalore.

Name of Work : Improvements to CC Road and Drains Murali House Road in Gangamma Temple in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/457/1/2013-14 Dated: 19.03.2014

Date of Testing : 20.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25200**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0.0	100	100
40	998	4.0	4.0	96.04	95-100
20	16285	64.6	68.6	31.42	30-70
10	5142	20.4	89.0	11.01	10-35
4.75	2050	8.1	97.1	2.88	

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NABL - Accredited Laboratory as per ISO / IEC - 17025 : 2005

Job No.: CTCE/BBMP/W.No.11/KS/STEEL/2013-14 20.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K. Satish (N S Infras),** Contractor, Bangalore.
Name of the Work	:	Improvements to CC Road and Drains Murali House Road in Gangamma Temple in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VSD/PR/457/1/2013-14 Dated: 19.03.2014
Date of Test	:	20.03.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	546	12.90	O.K	O.K

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Job No.: CTCE/BBMP/W.No.11/KS/CUBE/2013-14

25.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. K. Satish (N S Infras),** Contractor, Bangalore.
Name of the work	: Improvements to CC Road and Drains Murali House Road in Gangamma Temple in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/457/1/2013-14 Dated: 19.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2014	25.04.2014	8.255	486.2	21.61
2	28.03.2014	25.04.2014	8.369	498.3	22.15
3	28.03.2014	25.04.2014	8.148	478.5	21.27

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